SEQUENCE LISTING

<110> Iyer, Suhasini
Buelow, Roland
Lazarov, Mirella
Fong, Timothy

<120> Cytomodulating Peptides and Methods for Treating Neurological Disorders

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<140> 10/693,331
<141> 2003-10-24

<150> 60/421,297
<151> 2002-10-24

<150> 60/431,420
<151> 2002-12-05

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<151> 2003-05-15

<160> 35

<170> PatentIn version 3.2

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<222> (2)..(4)
<223> The Xaa at positions 2 to 4 are norleucine or any D-stereoisomer amino acid

<220>
<221> MOD_RES
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<223> Nle

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<220>
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<223> Nle

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Arg Xaa Xaa Xaa Arg Xaa Xaa Xaa Gly Tyr
1 5 10

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<222> (1)..(1)
<223> The Xaa at position 1 can be any basic amino acid, preferably lysine or arginine

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<222> (2)..(4)
<223> The Xaa at positions 2 to 4 can be any non-polar aliphatic or aromatic amino acid of from 5 to 6 carbon atoms, preferably any amino acid other than a polar aliphatic amino acid

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<222> (5)..(5)
<223> The Xaa at position 5 can be any basic amino acid, preferably lysine or arginine

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<222> (6)..(8)
<223> The Xaa at positions 6 to 8 can be any non-polar aliphatic or aromatic amino acid of from 5 to 6 carbon atoms, preferably any amino acid other than a polar aliphatic amino acid

<220>
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<222> (9)..(9)
<223> The Xaa at position 9 can be glysine, or any basic amino acid, or an aliphatic hydrophobic amino acid of from 5 to 6 carbon atoms

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Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr
1 5 10

<210> 3
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<223> Synthetic

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<222> (2)..(2)
<223> The Xaa at position 2 can be an uncharged aliphatic or aromatic amino acid, preferably a non-polar aliphatic or aromatic amino acid

<220>
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<222> (3)..(4)
<223> The Xaa at positions 3 to 4 can be any non-polar aliphatic or aromatic amino acid of from 5 to 6 carbon atoms, preferably any amino acid other than a polar aliphatic amino acid

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<220>
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<222> (9)..(9)
<223> The Xaa at position 9 can be glycine, or any basic amino acid, or an aliphatic hydrophobic amino acid of from 5 to 6 carbon atoms

<400> 3

Arg Xaa Xaa Xaa Arg Xaa Xaa Xaa Xaa Tyr
1 5 10

<210> 4
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Synthetic

<400> 4

Arg Leu Leu Leu Arg Leu Leu Leu Gly Tyr
1 5 10

<210> 5
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<220>
<223> Synthetic

<400> 5

Arg Val Leu Leu Arg Leu Leu Leu Gly Tyr
1 5 10

<210> 6
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<212> PRT
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<400> 6

Arg Ile Leu Leu Arg Leu Leu Leu Gly Tyr
1 5 10

<210> 7
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<400> 7

Arg Leu Val Leu Arg Leu Leu Leu Gly Tyr
1 5 10

<210> 8
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<400> 8

Arg Leu Ile Leu Arg Leu Leu Leu Gly Tyr
1 5 10

<210> 9
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<400> 9

Arg Leu Leu Val Arg Leu Leu Leu Gly Tyr
1 5 10

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<400> 10

Arg Leu Leu Ile Arg Leu Leu Leu Gly Tyr
1 5 10

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<400> 11

Arg Leu Leu Leu Arg Val Leu Leu Gly Tyr
1 5 10

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<400> 12

Arg Leu Leu Leu Arg Ile Leu Leu Gly Tyr
1 5 10

<210> 13
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<220>
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<400> 13

Arg Leu Leu Leu Arg Leu Val Leu Gly Tyr
1 5 10

<210> 14
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<212> PRT
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<220>
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<400> 14

Arg Leu Leu Leu Arg Leu Ile Leu Gly Tyr
1 5 10

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<400> 15

Arg Leu Leu Leu Arg Leu Leu Val Gly Tyr
1 5 10

<210> 16
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<220>
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<400> 16

Arg Leu Leu Leu Arg Leu Leu Ile Gly Tyr
1 5 10

<210> 17
<211> 10
<212> PRT
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<400> 17

Arg Trp Leu Leu Arg Leu Leu Leu Gly Tyr
1 5 10

<210> 18
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<212> PRT
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<223> Synthetic

<400> 18

Arg Leu Trp Leu Arg Leu Leu Leu Gly Tyr
1 5 10

<210> 19
<211> 10
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<220>
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<400> 19

Arg Leu Leu Trp Arg Leu Leu Leu Gly Tyr
1 5 10

<210> 20
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<212> PRT
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<400> 20

Arg Leu Leu Leu Arg Trp Leu Leu Gly Tyr
1 5 10

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<212> PRT
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<220>
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<400> 21

Arg Leu Leu Leu Arg Leu Trp Leu Gly Tyr
1 5 10

<210> 22
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<212> PRT
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<220>
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<400> 22

Arg Leu Leu Leu Arg Leu Leu Trp Gly Tyr
1 5 10

<210> 23
<211> 10
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<220>
<223> Synthetic

<400> 23

Arg Tyr Leu Leu Arg Leu Leu Leu Gly Tyr
1 5 10

<210> 24
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Synthetic

<400> 24

Arg Leu Tyr Leu Arg Leu Leu Leu Gly Tyr
1 5 10

<210> 25
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Synthetic

<400> 25

Arg Leu Leu Tyr Arg Leu Leu Leu Gly Tyr
1 5 10

<210> 26
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Synthetic

<400> 26

Arg Leu Leu Leu Arg Tyr Leu Leu Gly Tyr
1 5 10

<210> 27
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<212> PRT
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<220>
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<400> 27

Arg Leu Leu Leu Arg Leu Tyr Leu Gly Tyr
1 5 10

<210> 28
<211> 10
<212> PRT
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<220>
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<400> 28

Arg Leu Leu Leu Arg Leu Leu Tyr Gly Tyr
1 5 10

<210> 29
<211> 5
<212> PRT
<213> Artificial

<220>
<223> Synthetic

<400> 29

Gly Ser Gly Gly Ser
1 5

<210> 30
<211> 4

<212> PRT
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<400> 30

Gly Gly Gly Ser
1

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<221> MISC_FEATURE
<222> (1)..(5)
<223> The Xaa at positions 1 to 5 can be any amino acid

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<222> (7)..(9)
<223> The Xaa at positions 7 to 9 can be any amino acid, where one of amino acids 7 to 9 can be absent

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<222> (11)..(22)
<223> The Xaa at positions 11 to 22 can be any amino acid, where up to 8 of amino acids 11 to 22 can be absent

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<222> (24)..(26)
<223> The Xaa at positions 24 to 26 can be any amino acid

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<222> (28)..(32)
<223> The Xaa at positions 28 to 32 can be any amino acid

<400> 31

Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa
20 25 30

<210> 32
<211> 33
<212> PRT
<213> Artificial

<220>
<223> Synthetic

<220>
<221> MISC_FEATURE
<222> (7)..(26)
<223> The Xaa at positions 7 to 26 can be any amino acid, where up to 17 amino acids 7 to 26 can be absent

<400> 32

Phe Gln Cys Glu Glu Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Ile Arg Ser His Thr
20 25 30

Gly

<210> 33
<211> 30
<212> PRT
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<220>
<223> Synthetic

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<221> MISC_FEATURE
<222> (2)..(3)
<223> The Xaa at positions 2 to 3 can be any amino acid

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<222> (4)..(24)
<223> The Xaa at positions 4 to 24 can be any amino acid, where up to 16 amino acids 4 to 24 can be absent

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<222> (26)..(29)
<223> The Xaa at positions 26 to 29 can be any amino acid

<400> 33

Cys Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Cys
20 25 30

<210> 34
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<212> PRT
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<220>
<223> Synthetic

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<222> (7)..(26)
<223> The Xaa at positions 7 to 26 can be any amino acid, where up to 16 amino acids 7 to 26 can be absent

<400> 34

Val Lys Cys Phe Asn Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Thr Ala Arg Asn Cys
20 25 30

Arg

<210> 35
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<213> Artificial

<220>
<223> Synthetic

<220>
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<222> (10)..(29)
<223> The Xaa at positions 10 to 29 can be any amino acid, where up to 16 amino acids 10 to 29 can be absent

<400> 35

Met Asn Pro Asn Cys Ala Arg Cys Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Lys Ala
20 25 30

Cys Phe